

Topic: Reconnaissance using Nmap and Nessus

1.a Map the Network using nmap

Scan for all TCP Ports – OS Detection – Service Version and Vulnerability Scan

Command:

nmap -O -sS -sV --version-intensity 5 -A --script="default,smb-check-vulns.nse,vulscan.nse" -p 1-65535 10.10.111.0/24 -oN NewTCP_Script_Final.txt

- ⇒ TCP SYN Scan -sS
- ⇒ Operating System Detect -O
- ⇒ Version Detect (sV) and Version Intensity (version-intensity)
- ⇒ OS Detect and Version (A)
- ⇒ Ports all – P(1-65535)
- ⇒ Vulnerability Script Execution
 - Default
 - Vuln, smb-check - Vulnerability Script – Known Vulnerability
 - VulScan - Updated the DB Initially calling -nmap -script-updatedb
 - Used Database – Exploit.db and allitems.db – Obtained from <https://svn.nmap.org/nmap-exp/jiayi/scripts/vulscan.nse>

Screens:

```

root@bt:/usr/local/share/nmap/scripts# nmap -O -sS -sV --version-intensity 5 -A --script="default,smb-check-vulns.nse,vulscan.nse" -p 1-65535 10.10.111.0/24 -oN NewTCP_Script_Final.txt

Starting Nmap 5.51 ( http://nmap.org ) at 2017-02-22 21:48 EST
Stats: 0:02:33 elapsed; 105 hosts completed (2 up), 2 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 27.83% done; ETC: 21:56 (0:05:24 remaining)
Stats: 0:03:18 elapsed; 105 hosts completed (2 up), 2 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 37.39% done; ETC: 21:57 (0:04:45 remaining)
Stats: 0:07:04 elapsed; 105 hosts completed (2 up), 2 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 86.82% done; ETC: 21:57 (0:01:00 remaining)
Nmap scan report for 10.10.111.1
Host is up (0.0048s latency).
Not shown: 65533 closed ports
PORT      STATE SERVICE VERSION
53/tcp    open  domain ISC BIND 9.5.1-P3
111/tcp   open  rpcbind 2 (rpc #100000)
MAC Address: 02:1D:07:00:01:49 (Unknown)
No exact OS matches for host (If you know what OS is running on it, see http://nmap.org/submit/).
TCP/IP fingerprint:
OS:SCAN(V=5.51%D=2/22%OT=53%CT=1%CU=38441%PV=Y%DS=1%DC=0%G=Y%M=021D07%TM=58
OS:AE4F98%P=i686-pc-linux-gnu)SEQ(SP=CB%GCD=1%ISR=C9%TI=Z%CI=Z%II=I%TS=9)OP
OS:S(O1=M5B4ST11NW6%O2=M5B4ST11NW6%O3=M5B4NNT11NW6%O4=M5B4ST11NW6%O5=M5B4ST
OS:11NW6%O6=M5B4ST11)WIN(W1=16A0%W2=16A0%W3=16A0%W4=16A0%W5=16A0%W6=16A0)EC
OS:N(R=Y%DF=Y%T=40%W=16D0%O=M5B4NNSNW6%CC=N%Q=)T1(R=Y%DF=Y%T=40%S=0%A=S+F=
OS:AS%RD=0%Q=)T2(R=N)T3(R=Y%DF=Y%T=40%W=16A0%S=0%A=S+F=AS%O=M5B4ST11NW6%RD
OS:=0%Q=)T4(R=Y%DF=Y%T=40%W=0%S=A%A=Z%F=R%O=0%RD=0%Q=)T5(R=Y%DF=Y%T=40%W=0%S
OS:=Z%A=S+F=AR%O=0%RD=0%Q=)T6(R=Y%DF=Y%T=40%W=0%S=A%A=Z%F=R%O=0%RD=0%Q=)T7(R
OS:=Y%DF=Y%T=40%W=0%S=Z%A=S+F=AR%O=0%RD=0%Q=)U1(R=Y%DF=N%T=40%IPL=164%UN=0%
OS:RIPL=G%RID=G%RIPCK=G%RUCK=G%RUD=G)IE(R=Y%DFI=N%T=40%CD=S)

Network Distance: 1 hop

TRACEROUTE
HOP RTT ADDRESS
1 4.83 ms 10.10.111.1

Nmap scan report for 10.10.111.2
Host is up (0.0062s latency).
Not shown: 65533 closed ports

```

- Nmap starts the SYN scan by sending TCP SYN packets and waits for a SYNACK packet to discover if the port is open (A -tcp-connect option will establish full connection while the -syn option maintains a half way connection)

- Nmap detects the Operating System Running on the machine as well as the Services and Version running on the ports

```
Nmap scan report for 10.10.111.2
Host is up (0.0062s latency).
Not shown: 65533 closed ports
PORT      STATE SERVICE VERSION
53/tcp    open  domain ISC BIND 9.5.1-P3
111/tcp   open  rpcbind 2 (rpc #100000)
MAC Address: 02:1D:07:00:01:4A (Unknown)
No exact OS matches for host (If you know what OS is running on it, see http://nmap.org/submit/ ).
TCP/IP fingerprint:
OS:SCAN(V=5.51%0=2/22%OT=53%CT=1%CU=39265%PV=Y%DS=1%DC=D%G=Y%M=021D07%TM=58
OS:AE4F98%P=i686-pc-linux-gnu)SEQ(SP=C9%GCD=1%ISR=CF%TI=Z%CI=Z%II=I%TS=9)SE
OS:Q(SP=CB%GCD=1%ISR=CA%TI=Z%CI=Z%II=I%TS=9)OPS(O1=M5B4ST11NW6%02=M5B4ST11N
OS:W6%03=M5B4NNT11NW6%04=M5B4ST11NW6%05=M5B4ST11NW6%06=M5B4ST11)WIN(W1=16A0
OS:%W2=16A0%W3=16A0%W4=16A0%W5=16A0%W6=16A0)ECN(R=Y%DF=Y%T=40%W=16D0%0=M5B4
OS:NNSNW6%CC=N%Q=)T1(R=Y%DF=Y%T=40%S=0%A=S+%F=AS%RD=0%Q=)T2(R=N)T3(R=Y%DF=Y
OS:%T=40%W=16A0%S=0%A=S+%F=AS%0=M5B4ST11NW6%RD=0%Q=)T4(R=Y%DF=Y%T=40%W=0%S=
OS:A%A=Z%F=R%0=RD=0%Q=)T5(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%0=RD=0%Q=)T6(R=
OS:Y%DF=Y%T=40%W=0%S=A%A=Z%F=R%0=RD=0%Q=)T7(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=A
OS:R%0=RD=0%Q=)U1(R=Y%DF=N%T=40%IPL=164%UN=0%RIPL=G%RID=G%RIPCK=G%RUCK=G%R
OS:UD=G)IE(R=Y%DFI=N%T=40%CD=S)

Network Distance: 1 hop

TRACEROUTE
HOP RTT ADDRESS
1 6.21 ms 10.10.111.2

Nmap scan report for 10.10.111.107
Host is up (0.0043s latency).
Not shown: 65531 closed ports
PORT      STATE SERVICE VERSION
111/tcp   open  rpcbind 2 (rpc #100000)
1241/tcp  open  ssl/nessus Nessus Daemon (NTP v1.2)
8834/tcp  open  ssl/http NessusWWW 4.2.2 - 4.49RC1 (Nessus vulnerability scanner http UI)
|_ http-favicon:
39683/tcp open  status 1 (rpc #100024)
Device type: general purpose
Running: Linux 2.6.X
OS details: Linux 2.6.19 - 2.6.36
```

- The Next Screen of host Windows shows potential vulnerability from the script run

```
Stats: 0:19:29 elapsed; 254 hosts completed (5 up), 2 undergoing Script Scan
NSE Timing: About 0.00% done
Nmap scan report for 10.10.111.110
Host is up (0.010s latency).
Not shown: 65530 closed ports
PORT      STATE SERVICE VERSION
135/tcp   open  msrpc Microsoft Windows RPC
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds Microsoft Windows XP microsoft-ds
1025/tcp  open  msrpc Microsoft Windows RPC
5000/tcp  open  upnp Microsoft Windows UPnP
MAC Address: 02:1D:07:00:01:48 (Unknown)
Device type: general purpose
Running: Microsoft Windows 2000|XP
OS details: Microsoft Windows 2000 SP0/SP1/SP2 or Windows XP SP0/SP1, Microsoft Windows XP SP1
Network Distance: 1 hop
Service Info: OS: Windows

Host script results:
|_ nbstat: NetBIOS name: VICTIM1, NetBIOS user: POLY, NetBIOS MAC: 02:1d:07:00:01:48 (unknown)
|_ smb-v2-enabled: Server doesn't support SMBv2 protocol
|_ smb-os-discovery:
|   OS: Windows XP (Windows 2000 LAN Manager)
|   Name: MSHOME\VICTIM1
|   System time: 2017-02-23 06:07:32 UTC-8
|_ smb-check-vulns:
|   MS08-067: LIKELY VULNERABLE (host stopped responding)
|   Conficker: UNKNOWN; got error SMB: Failed to receive bytes after 5 attempts: TIMEOUT
|   regsvc DoS: CHECK DISABLED (add '--script-args=unsafe=1' to run)
|   SMBv2 DoS (CVE-2009-3103): CHECK DISABLED (add '--script-args=unsafe=1' to run)
|   MS06-025: CHECK DISABLED (remove 'safe=1' argument to run)
|   MS07-029: CHECK DISABLED (remove 'safe=1' argument to run)

TRACEROUTE
HOP RTT ADDRESS
1 10.34 ms 10.10.111.110
```

- The Vulnerability Scripts execute and output the potential vulnerability scenario in the host. (SMB Server and Unauthorized MySQL Server)

```
TRACEROUTE
HOP RTT ADDRESS
1 10.34 ms 10.10.111.110

Nmap scan report for 10.10.111.111
Host is up (0.013s latency).
Not shown: 65533 closed ports
PORT STATE SERVICE VERSION
631/tcp open ipp CUPS 1.1
| http-methods: Potentially risky methods: PUT
| See http://nmap.org/nsedoc/scripts/http-methods.html
3306/tcp open mysql MySQL (unauthorized)
MAC Address: 02:1D:07:00:01:45 (Unknown)
Device type: general purpose
Running: Linux 2.6.X
OS details: Linux 2.6.13 - 2.6.31
Network Distance: 1 hop

TRACEROUTE
HOP RTT ADDRESS
1 13.25 ms 10.10.111.111

OS and Service detection performed. Please report any incorrect results at http://nmap.org/submit/ .
Nmap done: 256 IP addresses (5 hosts up) scanned in 1214.58 seconds
```

- Nmap Scans the networks, Finds hosts in the network, performs TCP SYN scan and from the response obtained guesses from its database the Operating System, the version and service running in the host
- The TCP Scan Detects all the hosts present, their TCP Ports open and the corresponding OS, Service and Version running with the Potential Vulnerability data

1.b Scan for top 30 UDP Ports:

Command:

The command to perform the scan on the top 30 ports for UDP:

```
nmap -sU -sV --script="vulscan.nse" --top-ports 30 -oN UDP_Script_Final.txt 10.10.111.0/24
```

- ⇒ UDP Scan (sU) for Top Ports – 30 (top-ports)
- ⇒ Service Detection (sV)
- ⇒ Script Run – VulScan – Vulnerability Script

Output: Nmap performs UDP Scans for the 30 top UDP Ports on all the hosts, lists their IP address and UDP Ports Open

- Additionally, Nmap also populates the Service and the Version running in those ports discovered


```
root@bt:~/Desktop# nmap -sU -sV --script="vulscan" --top-ports 30 10.10.111.0/24
-oN UDP_Script_Final.txt
```

```
Starting Nmap 5.51 ( http://nmap.org ) at 2017-02-22 21:05 EST
Stats: 0:00:05 elapsed; 0 hosts completed (0 up), 107 undergoing ARP Ping Scan
Parallel DNS resolution of 107 hosts. Timing: About 0.00% done
Stats: 0:00:11 elapsed; 0 hosts completed (0 up), 107 undergoing ARP Ping Scan
Parallel DNS resolution of 107 hosts. Timing: About 0.00% done
Stats: 0:01:12 elapsed; 105 hosts completed (2 up), 2 undergoing Service Scan
Service scan Timing: About 50.00% done; ETC: 21:06 (0:00:33 remaining)
Nmap scan report for 10.10.111.1
```

Host is up (0.0074s latency).

PORT	STATE	SERVICE	VERSION
53/udp	open	domain	ISC BIND 9.5.1-P3
67/udp	open filtered	dhcps	
68/udp	open filtered	dhcpc	
69/udp	closed	tftp	
111/udp	open	rpcbind	2 (rpc #100000)
123/udp	closed	ntp	
135/udp	closed	msrpc	
137/udp	closed	netbios-ns	
138/udp	closed	netbios-dgm	
139/udp	closed	netbios-ssn	
161/udp	closed	snmp	
162/udp	closed	snmptrap	
445/udp	closed	microsoft-ds	
500/udp	closed	isakmp	
514/udp	closed	syslog	
520/udp	closed	route	
631/udp	closed	ipp	
996/udp	closed	vsinet	
997/udp	closed	maird	
998/udp	closed	puparp	
999/udp	closed	applix	
1434/udp	closed	ms-sql-m	
1701/udp	closed	L2TP	
1900/udp	closed	upnp	
3283/udp	open filtered	netassistant	
4500/udp	closed	nat-t-ike	

```
4500/udp closed nat-t-ike
5353/udp closed zeroconf
49152/udp closed unknown
49153/udp closed unknown
49154/udp closed unknown
MAC Address: 02:1D:07:00:01:49 (Unknown)
```

Nmap scan report for 10.10.111.2

Host is up (0.0046s latency).

Not shown: 27 closed ports

PORT	STATE	SERVICE	VERSION
53/udp	open	domain	ISC BIND 9.5.1-P3
67/udp	open filtered	dhcps	
111/udp	open	rpcbind	2 (rpc #100000)

MAC Address: 02:1D:07:00:01:4A (Unknown)

Nmap scan report for 10.10.111.107

Host is up (0.00012s latency).

Not shown: 28 closed ports

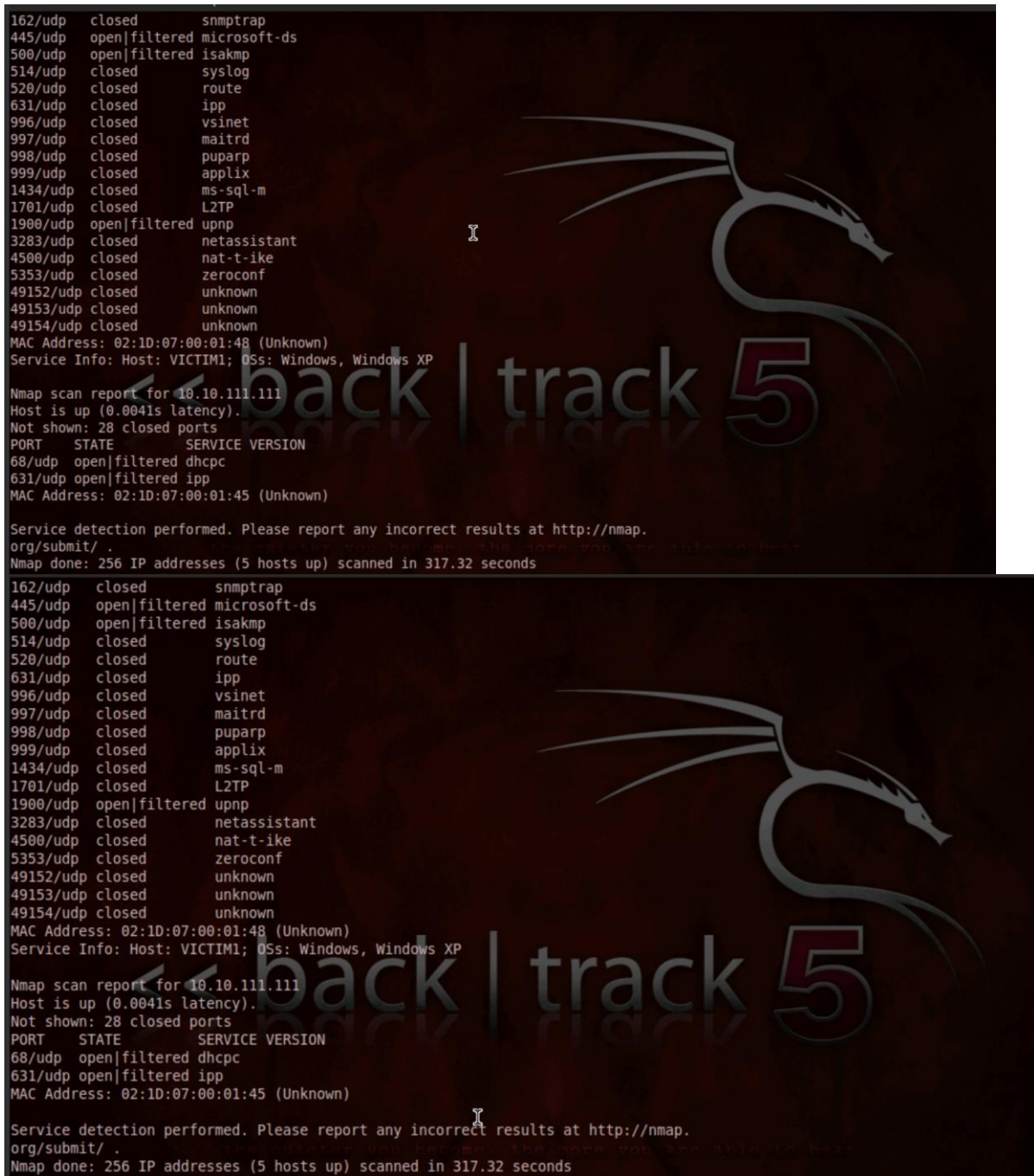
PORT	STATE	SERVICE	VERSION
68/udp	open filtered	dhcpc	
111/udp	open	rpcbind	2 (rpc #100000)

Nmap scan report for 10.10.111.110

Host is up (0.0092s latency).

PORT	STATE	SERVICE	VERSION
53/udp	closed	domain	
67/udp	closed	dhcps	
68/udp	closed	dhcpc	
69/udp	closed	tftp	
111/udp	closed	rpcbind	
123/udp	open	ntp	Microsoft NTP
135/udp	open	msrpc	
137/udp	open	netbios-ns	Microsoft Windows XP netbios-ssn (workgroup)
: MSHOME)			
138/udp	open filtered	netbios-dgm	
139/udp	closed	netbios-ssn	
161/udp	closed	snmp	
162/udp	closed	snmptrap	

- Nmap checks the well-known UDP ports for service detection for each host and provides the output. Hence the service type is already known and only the detection of OPEN/CLOSE matters



```

162/udp closed snmptrap
445/udp open|filtered microsoft-ds
500/udp open|filtered isakmp
514/udp closed syslog
520/udp closed route
631/udp closed ipp
996/udp closed vsinet
997/udp closed maird
998/udp closed puparp
999/udp closed applix
1434/udp closed ms-sql-m
1701/udp closed L2TP
1900/udp open|filtered upnp
3283/udp closed netassistant
4500/udp closed nat-t-ike
5353/udp closed zeroconf
49152/udp closed unknown
49153/udp closed unknown
49154/udp closed unknown
MAC Address: 02:1D:07:00:01:48 (Unknown)
Service Info: Host: VICTIM1; OSs: Windows, Windows XP

Nmap scan report for 10.10.111.111
Host is up (0.0041s latency).
Not shown: 28 closed ports
PORT      STATE      SERVICE VERSION
68/udp    open|filtered dhcpd
631/udp   open|filtered ipp
MAC Address: 02:1D:07:00:01:45 (Unknown)

Service detection performed. Please report any incorrect results at http://nmap.org/submit/.
Nmap done: 256 IP addresses (5 hosts up) scanned in 317.32 seconds

162/udp closed snmptrap
445/udp open|filtered microsoft-ds
500/udp open|filtered isakmp
514/udp closed syslog
520/udp closed route
631/udp closed ipp
996/udp closed vsinet
997/udp closed maird
998/udp closed puparp
999/udp closed applix
1434/udp closed ms-sql-m
1701/udp closed L2TP
1900/udp open|filtered upnp
3283/udp closed netassistant
4500/udp closed nat-t-ike
5353/udp closed zeroconf
49152/udp closed unknown
49153/udp closed unknown
49154/udp closed unknown
MAC Address: 02:1D:07:00:01:48 (Unknown)
Service Info: Host: VICTIM1; OSs: Windows, Windows XP

Nmap scan report for 10.10.111.111
Host is up (0.0041s latency).
Not shown: 28 closed ports
PORT      STATE      SERVICE VERSION
68/udp    open|filtered dhcpd
631/udp   open|filtered ipp
MAC Address: 02:1D:07:00:01:45 (Unknown)

Service detection performed. Please report any incorrect results at http://nmap.org/submit/.
Nmap done: 256 IP addresses (5 hosts up) scanned in 317.32 seconds

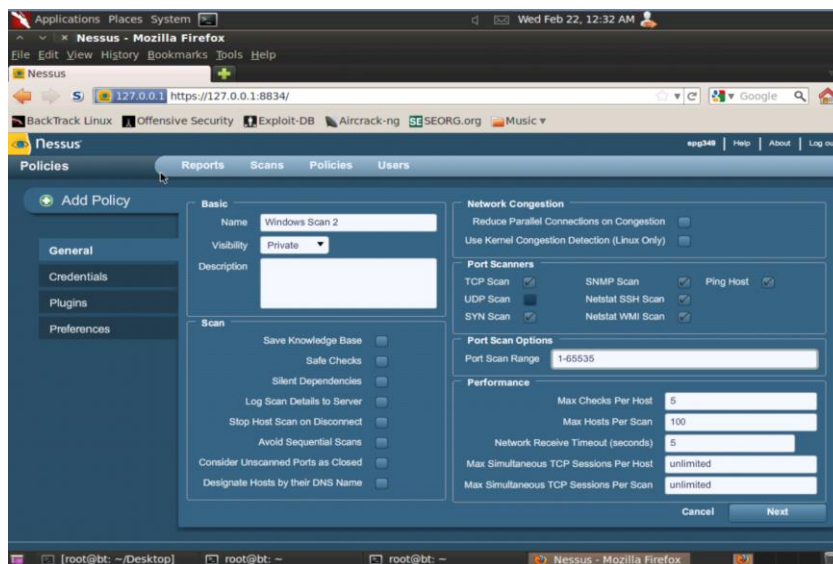
```

- Nmap tries to send corresponding packets to the well-known UDP ports to gain a better response. UDP Scan takes more time to detect

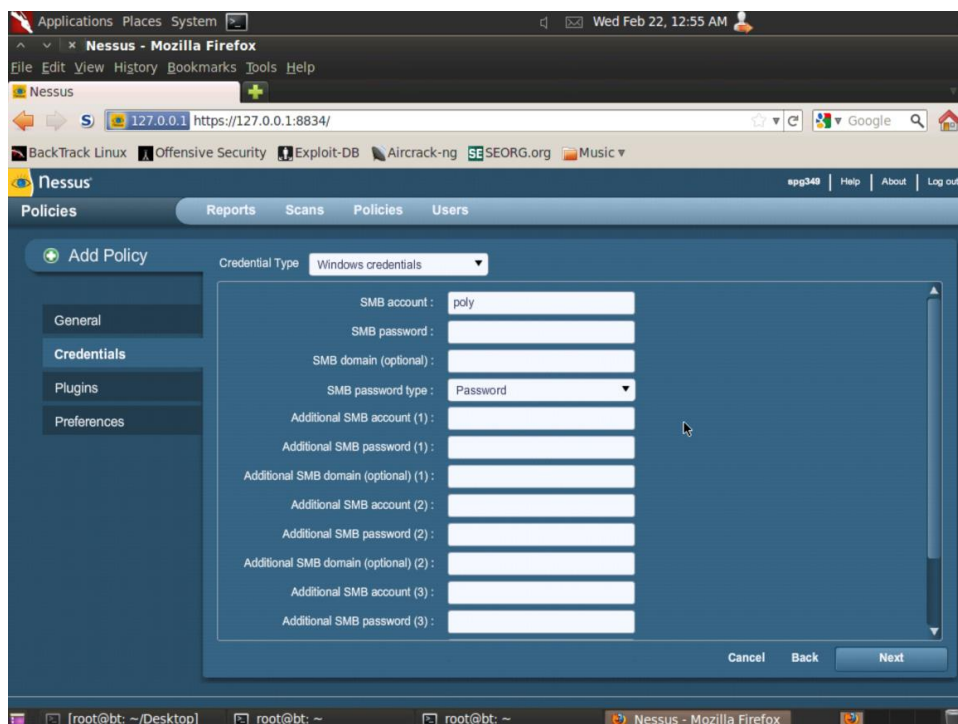
1. Nessus Vulnerability Scan

Nessus Setup:

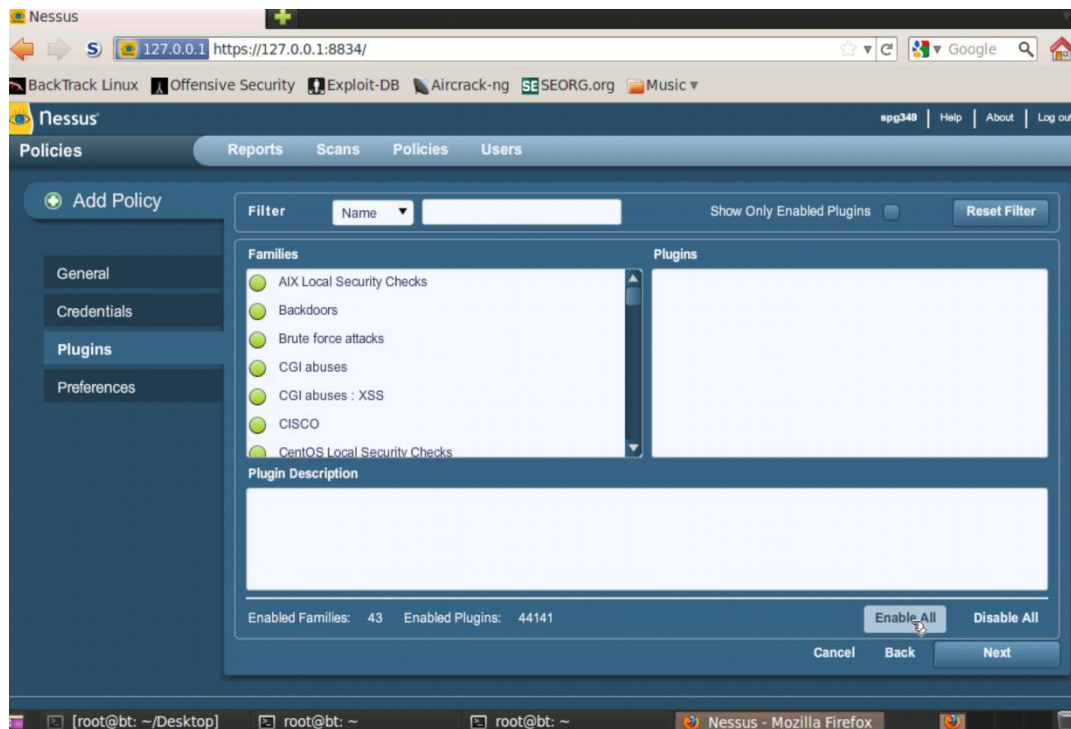
- Create a User, Start the Nessus Server and Launch Client in Browser
- Login and Create a Policy
 - Enabled All possible scans (TCP, SYN, SNMP)
 - Removed Safe Checks to probe the system for any kernel failures
 - Port number selected for the entire range [1 - 65535]
 - The number of connections and other options are default



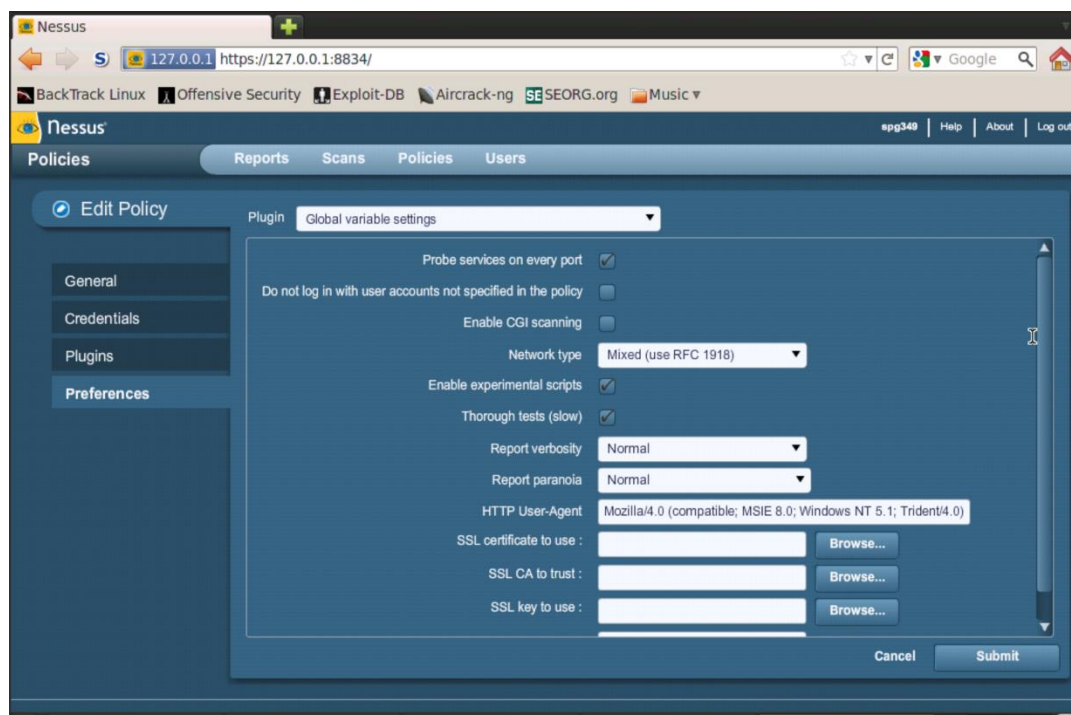
- On the Credentials section
 - Set the Windows credentials with “poly” and password “” based on the Vital Wiki Lab0 Guide
 - Based on the nmap scan results found that no Web,SSH or Telnet Protocols [or Ports were open] are enabled hence did not set any credentials for other protocols (Others – default)



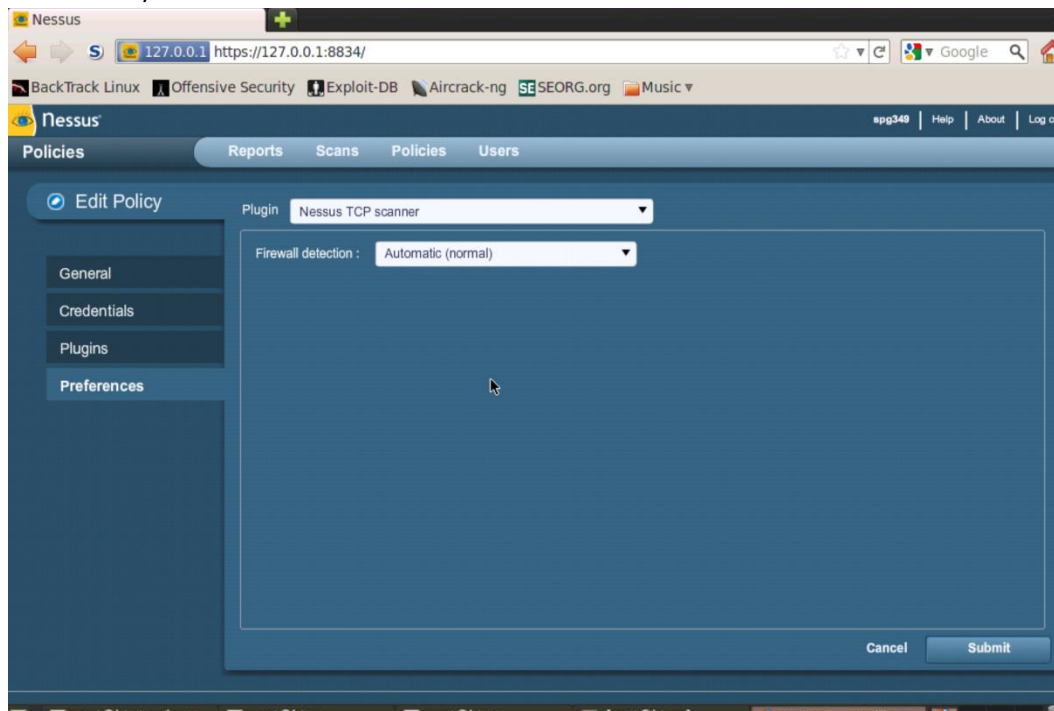
- Plugins Section
 - Enabled All the Plugins for all kinds of vulnerability CVE



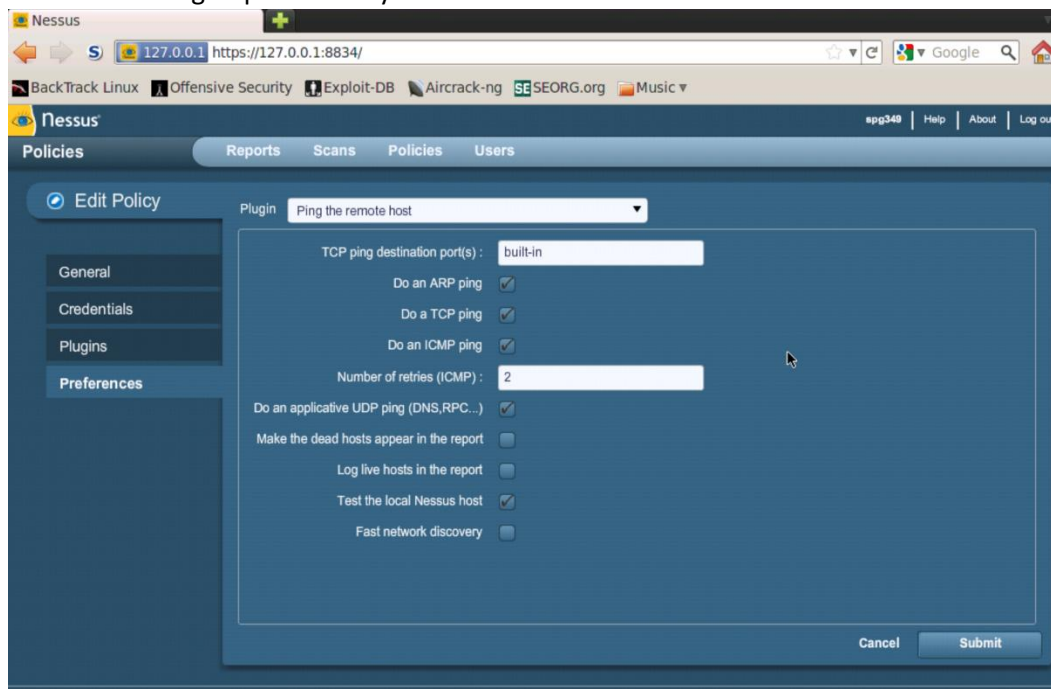
- Preferences Section
 - Global Variable Setting
 - Enabling Experimental Scripts and Thorough Test – to make sure any chance of vulnerability occurrence in the target. Web services ignored as the no web services are enabled according to the Nessus scan.



- Nessus TCP/SYN Scanner – to Automatic Firewall Detection

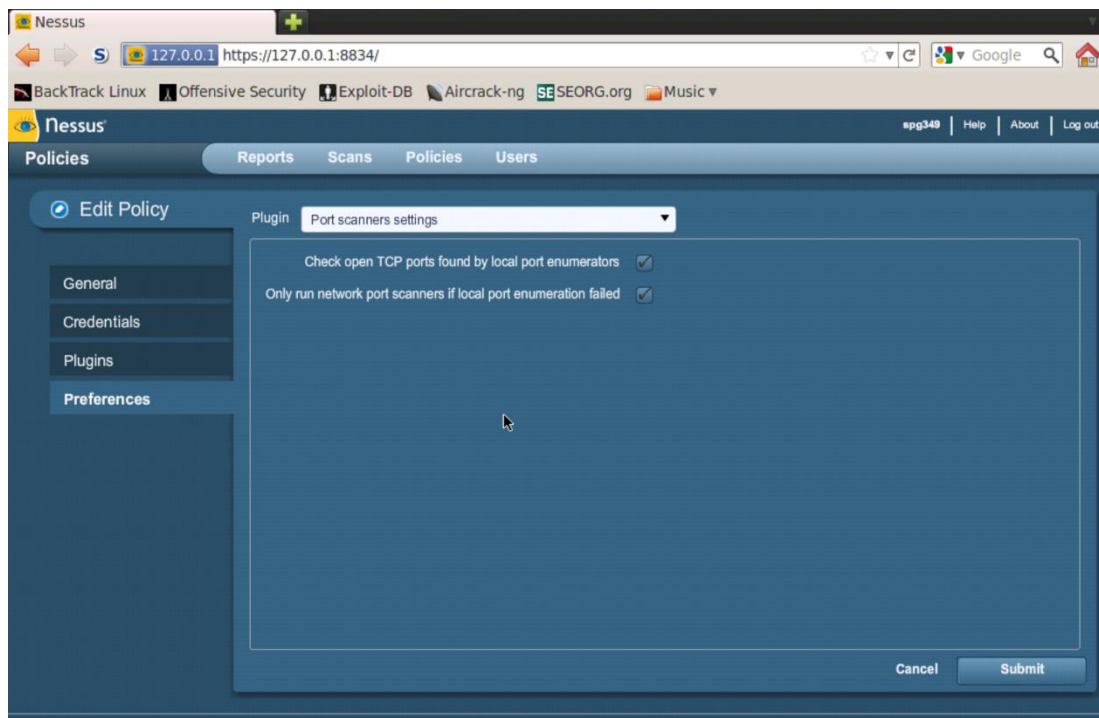


- Enable UDP Ping to perform any UDP checks

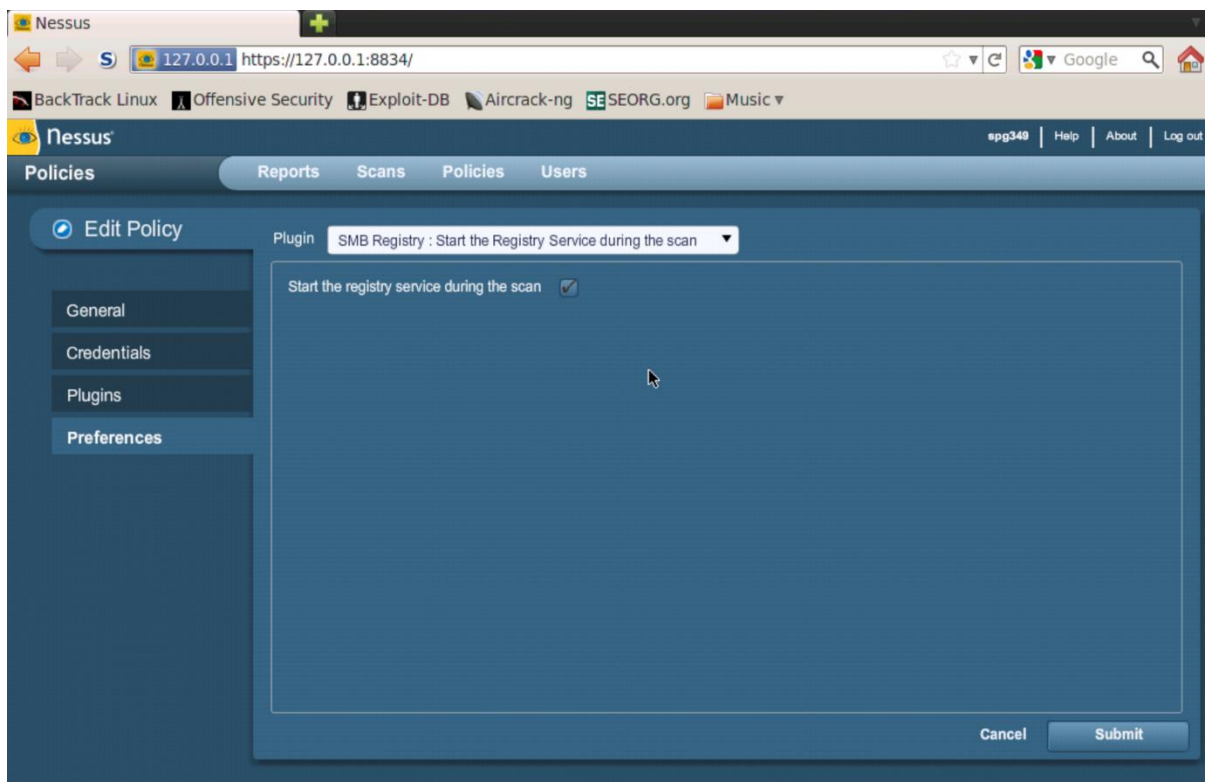


- Using Port enumerators for faster port scanning and port scanners when port enumeration fails

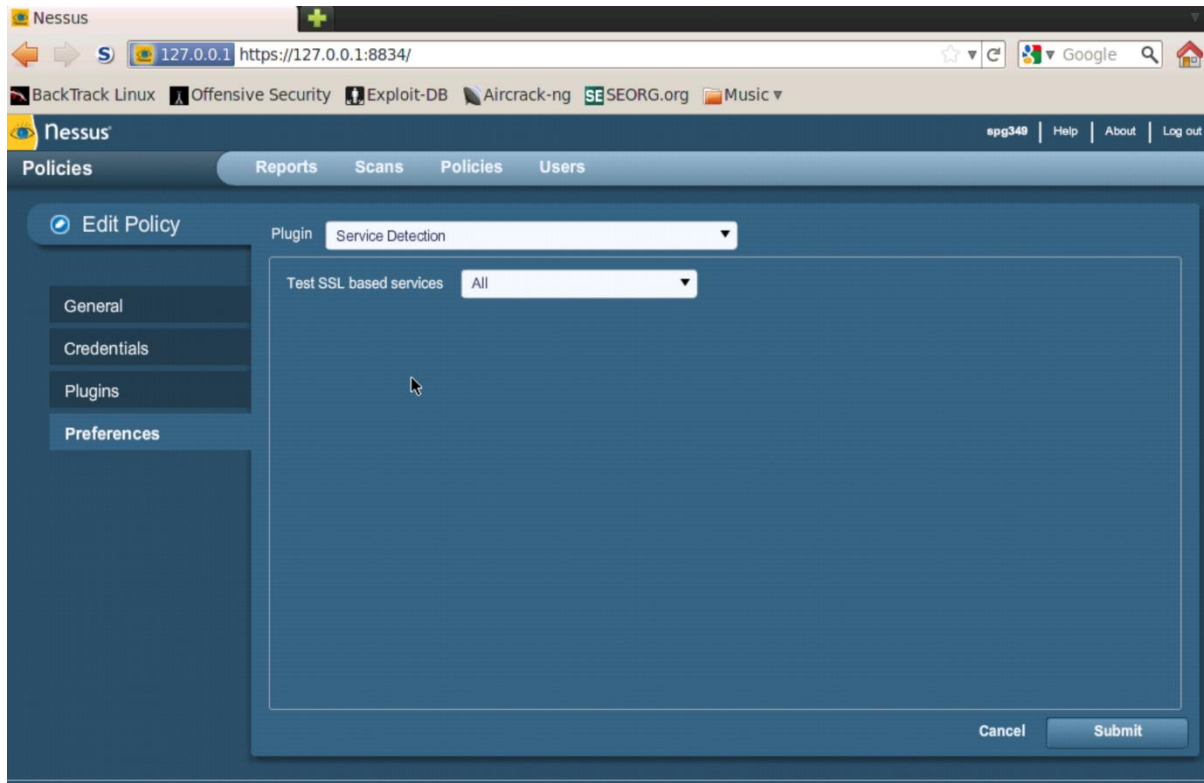
Reference: <https://community.tenable.com/thread/1337>



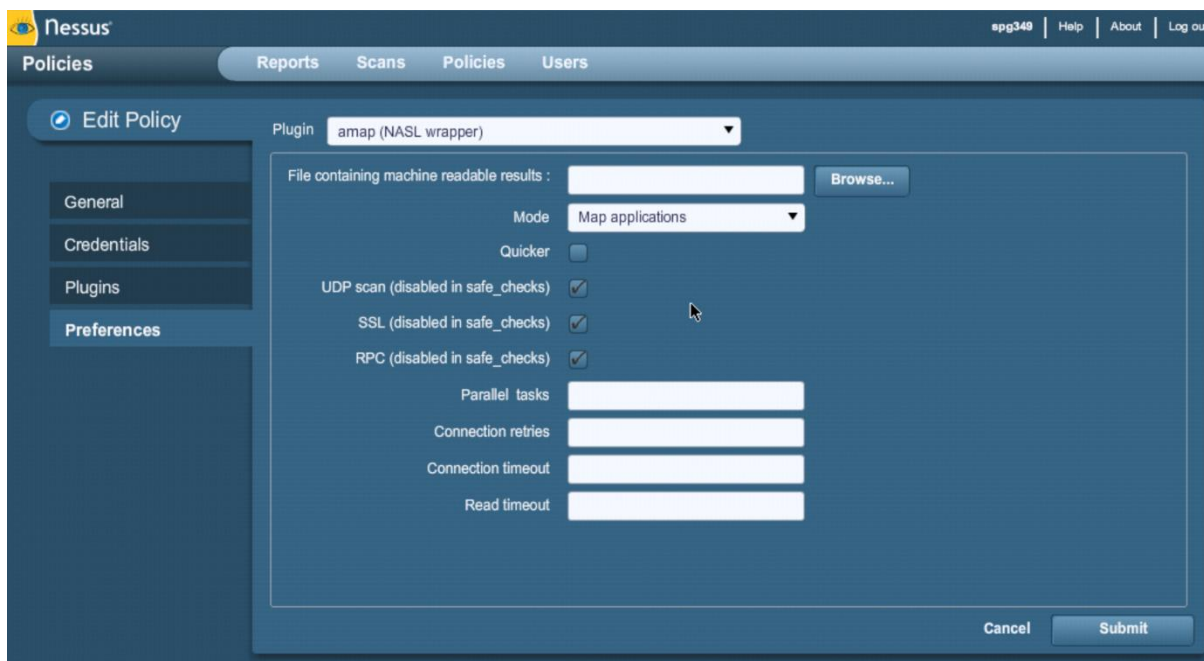
- SMB Registry Start: Knowing that the SMB registry port is open and the service existence in the windows machine from nmap (139,445), enabled this option to enable if it is down.



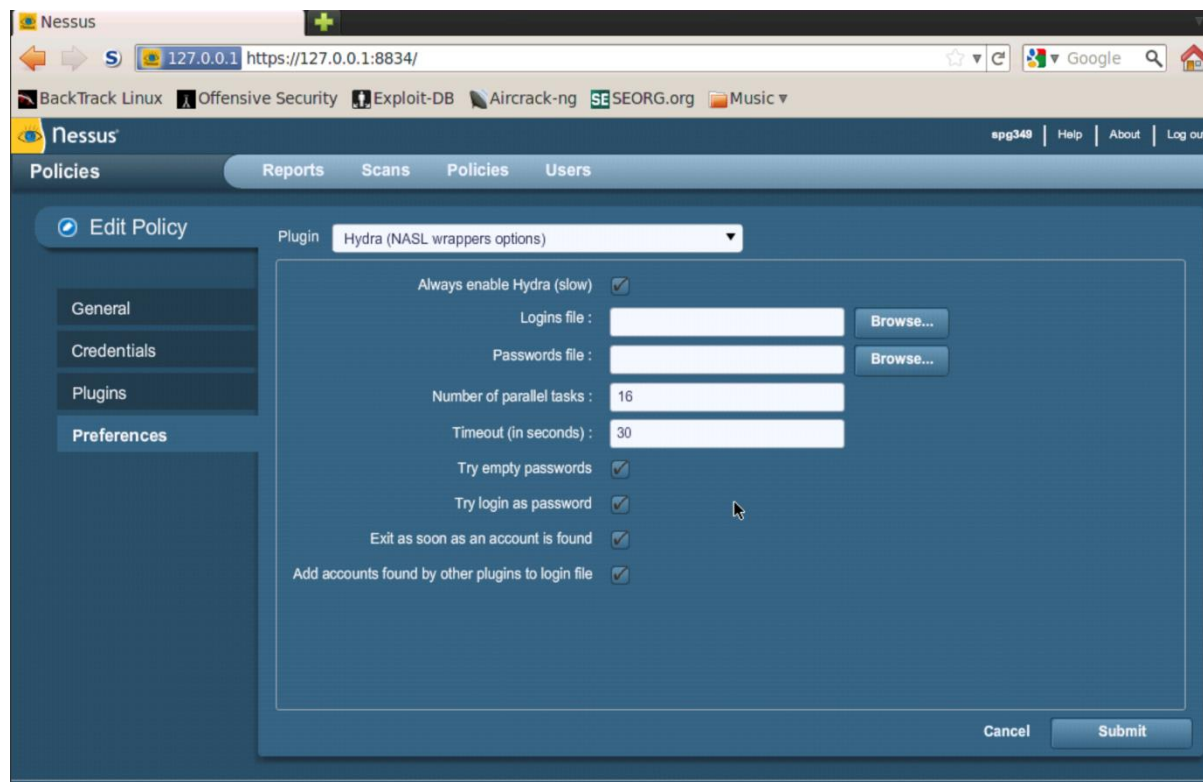
- Service Detection – Set to ALL instead of know SSL ports to ensure If anything at all was missed during nmap scan



- AMAP Scanner (Identify Applications irrespective of ports) – To scan UDP Ports
 - Enabled UDP Scan and others are default



- HYDRA Scanner (Login Cracker)–
 - Enabled Hydra Scanner and Hydra SMB scan option



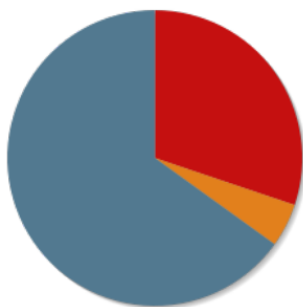
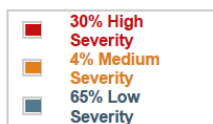
- All the other options (SNMP, Web) are set to default as no TCP/UDP Port were detected in nmap scan

Scan Results :

---- Scan Summary

Executive Summary:

TOP 10 HOSTS with ISSUES



[10.10.111.110](#)

High Severity problem(s) found

High Severity Vulnerability:

PLUGIN ID#	# OF ISSUES	PLUGIN NAME	SEVERITY
53503	1	MS11-020: Vulnerability in SMB Server Could Allow Remote Code Execution (2508429) (remote check)	High Severity problem(s) found
48405	1	MS10-054: Vulnerabilities in SMB Server Could Allow Remote Code Execution (982214) (remote check)	High Severity problem(s) found
47556	1	MS10-012: Vulnerabilities in SMB Could Allow Remote Code Execution (971468) (uncredentialed check)	High Severity problem(s) found
35362	1	MS09-001: Microsoft Windows SMB Vulnerabilities Remote Code Execution (958687) (uncredentialed check)	High Severity problem(s) found
34477	1	MS08-067: Microsoft Windows Server Service Crafted RPC Request Handling Remote Code Execution (958644) (uncredentialed check)	High Severity problem(s) found
22194	1	MS06-040: Vulnerability in Server Service Could Allow Remote Code Execution (921883) (uncredentialed check)	High Severity problem(s) found
22034	1	MS06-035: Vulnerability in Server Service Could Allow Remote Code Execution (917159) (uncredentialed check)	High Severity problem(s) found
19407	1	MS05-043: Vulnerability in Printer Spooler Service Could Allow Remote Code Execution (896423) (uncredentialed check)	High Severity problem(s) found
19408	1	MS05-039: Vulnerability in Plug and Play Service Could Allow Remote Code Execution (899588) (uncredentialed check)	High Severity problem(s) found
18502	1	MS05-027: Vulnerability in SMB Could Allow Remote Code Execution (896422) (uncredentialed check)	High Severity problem(s) found
13852	1	MS04-022: Microsoft Windows Task Scheduler Remote Overflow (841873)	High Severity problem(s) found
21655	1	MS04-012: Cumulative Update for Microsoft RPC/DCOM (828741) (uncredentialed check)	High Severity problem(s) found
12209	1	MS04-011: Security Update for Microsoft Windows (835732) (uncredentialed check)	High Severity problem(s) found
12054	1	MS04-007: ASN.1 Vulnerability Could Allow Code Execution (828028) (uncredentialed check)	High Severity problem(s) found
11890	1	MS03-043: Buffer Overrun in Messenger Service (828035) (uncredentialed check)	High Severity problem(s) found
11835	1	MS03-039: Microsoft RPC Interface Buffer Overrun (824146) (uncredentialed check)	High Severity problem(s) found
11808	1	MS03-026: Microsoft RPC Interface Buffer Overrun (823980)	High Severity problem(s) found
11110	1	MS02-045: Microsoft Windows SMB Protocol SMB_COM_TRANSACTION Packet Remote Overflow DoS (326830)	High Severity problem(s) found
42411	1	Microsoft Windows SMB Shares Unprivileged Access	High Severity problem(s) found

Medium Severity:

20928	1	MS06-008: Vulnerability in Web Client Service Could Allow Remote Code Execution (911927) (uncredentialed check)	Medium Severity problem(s) found
16337	1	MS05-007: Vulnerability in Windows Could Allow Information Disclosure (888302) (uncredentialed check)	Medium Severity problem(s) found
26919	1	Microsoft Windows SMB Guest Account Local User Access	Medium Severity problem(s) found

Low Severity:

14663	9	amap (NASL wrapper)	Low Severity problem(s) found
10736	4	DCE Services Enumeration	Low Severity problem(s) found
11011	2	Microsoft Windows SMB Service Detection	Low Severity problem(s) found
10150	1	Windows NetBIOS / SMB Remote Host Information Disclosure	Low Severity problem(s) found
11765	1	UPnP TCP Helper Detection	Low Severity problem(s) found
10287	1	Traceroute Information	Low Severity problem(s) found
25220	1	TCP/IP Timestamps Supported	Low Severity problem(s) found
10860	1	SMB Use Host SID to Enumerate Local Users	Low Severity problem(s) found
35705	1	SMB Registry : Starting the Registry Service during the scan failed	Low Severity problem(s) found
22964	1	Service Detection	Low Severity problem(s) found
11936	1	OS Identification	Low Severity problem(s) found
10884	1	Network Time Protocol (NTP) Server Detection	Low Severity problem(s) found
24786	1	Nessus Windows Scan Not Performed with Admin Privileges	Low Severity problem(s) found
19506	1	Nessus Scan Information	Low Severity problem(s) found
10395	1	Microsoft Windows SMB Shares Enumeration	Low Severity problem(s) found

10400	1	Microsoft Windows SMB Registry Remotely Accessible	Low Severity problem(s) found
26920	1	Microsoft Windows SMB NULL Session Authentication	Low Severity problem(s) found
10785	1	Microsoft Windows SMB NativeLanManager Remote System Information Disclosure	Low Severity problem(s) found
10859	1	Microsoft Windows SMB LsaQueryInformationPolicy Function SID Enumeration	Low Severity problem(s) found
10394	1	Microsoft Windows SMB Log In Possible	Low Severity problem(s) found
10428	1	Microsoft Windows SMB Fully Accessible Registry Detection	Low Severity problem(s) found
13855	1	Microsoft Windows Installed Hotfixes	Low Severity problem(s) found
14788	1	IP Protocols Scan	Low Severity problem(s) found
10114	1	ICMP Timestamp Request Remote Date Disclosure	Low Severity problem(s) found
24260	1	HyperText Transfer Protocol (HTTP) Information	Low Severity problem(s) found
54615	1	Device Type	Low Severity problem(s) found
45590	1	Common Platform Enumeration (CPE)	Low Severity problem(s) found
42799	1	Broken Web Servers	Low Severity problem(s) found
21745	1	Authentication Failure - Local Checks Not Run	Low Severity problem(s) found

Machine Details and Summary:

Number of vulnerabilities

High	19
Medium	3
Low	41

Remote Host Information

Operating System:	Microsoft Windows XP Microsoft Windows XP Service Pack 1
NetBIOS name:	VICTIM1
MAC address:	02:1d:07:00:01:48

3. Summary:

Based on the Scan reports, we have found the TCP/UDP ports, services running and vulnerabilities present in the hosts. With these Information, we could exploit the protocols and vulnerabilities by,

* As we get to know that DHCP and DNS are open in most of the linux Operating Systems, we could perform attacks like Rogue DHCP or DHCP Starvation or DNS Poisoning attacks.

* The Windows machine obviously vulnerable from the findings can be exploited with SMB Server attacks, Buffer Overrun and Remote Code Execution attacks.

* The Last linux machine 110.111 has a MySQL server open unauthorized for access which can be exploited

* Based on the OS, Service and Version information obtained we can easily check through vulnerability database in the internet to find a possible exploit without the fix in the current version and attack it.